



Climate change impacts on flood events and its consequences on human in Deba River

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Abstract:

The scientific community agrees that climate change is one of the greatest challenges that our society will have to face this century. Indeed, the fourth report from the Intergovernmental Panel on Climate Change (IPPC) confirms the certitude of this phenomenon and its impacts, which can range from droughts to floods, health problems and food shortages. The principal objective of this paper is to assess the impact of climate change on flood events and its consequences on human. This point is necessary to define and evaluate different adaptation options. Even taking into account the medium greenhouse emission scenario, according to the results, it is expected that extreme precipitation will increase during the twenty century, although there is an uncertainty in the percentage due to the climatic models. It is expected an increase in peak discharge between 14 +/- 9 and 15 +/- 8 for 3 models and for the period 2001-2040 with a return period exceeding 40 years. For the period 2041-2080 there is more uncertainty, it is expected an increase between 12 +/- 8 and 19 +/- 10 for 2 models. According to the results, changes in flood event are expected with its associated uncertainty and new flood zones are detected with greater hazard to people.

Source: http://www.ijer.ir/article_711_36.html

Resource Description

Climate Scenario :

specification of climate scenario (set of assumptions about future states related to climate)

Special Report on Emissions Scenarios (SRES)

Special Report on Emissions Scenarios (SRES) Scenario: SRES A1, SRES A2

Exposure :

weather or climate related pathway by which climate change affects health

Extreme Weather Event, Precipitation

Extreme Weather Event: Flooding

Geographic Feature:

resource focuses on specific type of geography

Freshwater, Ocean/Coastal, Rural, Urban

Climate Change and Human Health Literature Portal

Geographic Location:

resource focuses on specific location

Non-United States

Non-United States: Europe

European Region/Country: European Country

Other European Country : Spain

Health Impact:

specification of health effect or disease related to climate change exposure

General Health Impact

Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

Adaptation

Model/Methodology:

type of model used or methodology development is a focus of resource

Exposure Change Prediction

Resource Type:

format or standard characteristic of resource

Research Article

Timescale:

time period studied

Long-Term (>50 years)

Vulnerability/Impact Assessment:

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content